Ho-Joong Kim

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EDUCATION

Korea University   *2021 - present*
Ph. D. Candidate in Dept. of Artificial Intelligence
Advisor: Prof. Seong-Whan Lee

Hansung University   *2015 - 2021*
B.S. in Dept. of Industrial Management Engineering and Computer Engineering

PUBLICATIONS

[1] **Ho-Joong Kim**, Yerang Lee, Jung-Ho Hong, and Seong-Whan Lee, DiGIT: Multi-Dilated Gated Encoder and Central-Adjacent Region Integrated Decoder for Temporal Action Detection Transformer, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**)*, 2025.

[2] Jung-Ho Hong, **Ho-Joong Kim**, Kyu-Sung Jeon, and Seong-Whan Lee, Comprehensive Information Bottleneck for Unveiling Universal Attribution to Interpret Vision Transformers, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**)*, 2025.

[3] **Ho-Joong Kim**, Jung-Ho Hong, Heejo Kong, and Seong-Whan Lee, TE-TAD: Towards Full End-to-End Temporal Action Detection via Time-Aligned Coordinate Expression, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**)*, 2024.

[4] Yearang Lee, **Ho-Joong Kim**, and Seong-Whan Lee, Text-Infused Attention and Foreground-Aware Modeling for Zero-Shot Temporal Action Detection, *Advances in Neural Information Processing Systems (**NeurIPS**)*, 2024.

[5] Heejo Kong, Suneung Kim, **Ho-Joong Kim**, and Seong-Whan Lee, Unknown-Aware Graph Regularization for Robust Semi-supervised Learning from Uncurated Data, *AAAI Conference on Artificial Intelligence (**AAAI**)*, 2024.

[6] **Ho-Joong Kim**, and Seong-Whan Lee, Ensuring Spatial Scalability with Temporal-Wise Spatial Attentive Pooling for Temporal Action Detection, *Neural Networks*, 2024.

[7] Yehna Kim, **Ho-Joong Kim**, and Seong-Whan Lee, Description Attribute-Enhanced Spatio-Temporal Zero-shot Action Recognition, *International Conference on Pattern Recognition and Artificial Intelligence (**ICPRAI**)*, 2024.

[8] Yu-Won Lee, Myeong-Seok Oh, **Ho-Joong Kim**, and Seong-Whan Lee, Enhancing Discriminative Ability among Similar Classes with Guidance of Text-Image Correlation for Unsupervised Domain Adaptation, *International Joint Conference on Neural Networks (**IJCNN**)*, 2023, Oral Presentation.

[9] Seong-Yun Jeong, **Ho-Joong Kim**, Myeong-Seok Oh, Gun-Hee Lee, and Seong-Whan Lee, Temporal-Invariant Video Representation Learning with Dynamic Temporal Resolutions, *IEEE International Conference on Advanced Video and Signal Based Surveillance (**AVSS**)*, 2022, Oral Presentation.

[10] **Ho-Joong Kim**, and Sung-Hoon Jung, SCGN: Novel Generative Model using the Convergence of Latent Space by Training, *Electronic Letters*, 2020

[11] **Ho-Joong Kim**, and Sung-Hoon Jung, SOGN: Novel Generative Model using Self Organizing Map, *Electronic Letters*, 2019.

AWARDS

Best Paper Award from The Institute of Electronics and Information Engineers Summer Conference   *2019*
Best Paper Award from The Institute of Electronics and Information Engineers Winter Conference   *2018*

PATENT

Apparatus and method for detecting action based on weakly-supervised learning using self-guided semantic allocation, Patent No. 10-2023-0107835, Republic of Korea, 2023.